

Amendments to the Specification:

Please amend the specification as follows.

Please substitute the following paragraph for the one bridging pages 10-11.

--Reshaped human antibodies may also be used according to the invention. These are prepared by using the complementary determinant region of a mouse or other non-human mammalian animal antibody to replace the complementary determinant region of a human antibody, and conventional gene recombination methods therefore are well-known. One of the known methods may be used to obtain a reshaped human antibody which is useful according to the invention. A preferred example of such a reshaped human antibody is hPM-1 (see Intl. Unexamined Patent Application No. WO92-19759), which includes a humanized PM-1 antibody that comprises:

(A) L chains of an antibody to the human IL-6 receptor, each comprising:

(1) a variable (V) region of a light (L) chain of an antibody to the human IL-6 receptor having the following structure:

FR1¹-CDR1¹-FR2¹-CDR2¹-FR3¹-CDR3¹-FR4¹

wherein CDR1¹, CDR2¹ and CDR3¹ represent a set of three complementarity determining regions comprising a set of the following amino acid sequences:

CDR1¹ Arg Ala Ser Gln Asp Ile Ser Ser Tyr Leu Asn (SEQ ID NO: 2)

CDR2¹ Tyr Thr Ser Arg Leu His Ser (SEQ ID NO: 3)

CDR3¹ Gln Gln Gly Asn Thr Leu Pro Tyr Thr (SEQ ID NO: 4);
and the FR1¹, FR2¹, FR3¹ and FR4¹ comprise a set of

the following amino acid sequences:

FR1¹ Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
Ser Val Gly Asp Arg Val Thr Ile Thr Cys (SEQ ID NO: 5)

FR2¹ Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
Ile Tyr (SEQ ID NO: 6)

FR3¹ Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr
Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp
Ile Ala Thr Tyr Tyr Cys (SEQ ID NO: 7)

FR4¹ Phe Gly Gln Gly Thr Lys Val Glu Ile Lys; (SEQ ID NO: 8)

or

FR1¹ Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys (SEQ ID NO: 5)

FR2¹ Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr (SEQ ID NO: 6)

FR3¹ Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys (SEQ ID NO: 9)

FR4¹ Phe Gly Gln Gly Thr Lys Val Glu Ile Lys (SEQ ID NO: 8);

and

(2) a C region of an L chain of a human antibody C κ ; and [[N]]

(B) H chains of an antibody to the human IL-6 receptor, each comprising:

(1) a V region of a heavy (H) chain of an antibody to the human IL-6 receptor having the following structure:

FR1²-CDR1²-FR2²-CDR2²-FR3²-CDR3²-FR4²

wherein CDR1², CDR2² and CDR3² represent a set of three complementarity determining regions comprising a set of the following amino acid sequences:

CDR1² Ser Asp His Ala Trp Ser (SEQ ID NO: 10)

CDR2² Tyr Ile Ser Tyr Ser Gly Ile Thr Thr Tyr Asn Pro Ser Leu Lys Ser (SEQ ID NO: 11)

CDR3² Ser Leu Ala Arg Thr Thr Ala Met Asp Tyr (SEQ ID NO: 12);

and the FR1², FR2², FR3² and FR4² comprise a set of the following amino acid sequences:

FR1² Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser Ile Thr (SEQ ID NO: 13)

FR2² Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile Gly (SEQ ID NO: 14)

FR3² Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln
Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr
Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)

FR4² Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID
NO: 16);

FR1² Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg
Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly
Tyr Thr Phe Thr (SEQ ID NO: 17)

FR2² Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Met
Gly (SEQ ID NO: 18)

FR3² Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln
Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr
Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)

FR4² Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID
NO: 16);

FR1² Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg
Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly
Tyr Thr Phe Thr (SEQ ID NO: 19)

FR2² Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Met
Gly (SEQ ID NO: 18)

FR3² Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln
Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr
Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)

FR4² Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID
NO: 16);

FR1² Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg
Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly
Tyr Thr Phe Thr (SEQ ID NO: 17)

FR2² Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile
Gly (SEQ ID NO: 14)

FR3² Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln
Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr
Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)

FR4² Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID NO: 16);

FR1² Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr (SEQ ID NO: 19)

FR2² Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile Gly (SEQ ID NO: 14)

FR3² Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)

FR4² Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID NO: 16);

or

FR1² Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr (SEQ ID NO: 19)

FR2² Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile Gly (SEQ ID NO: 14)

FR3² Arg Val Thr Met Leu Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 20)

FR4² Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID NO: 16); and

(2) a C region of an H chain of a human antibody Cy).--